

WHAT IS CLAIMED IS:

1. A separator system, comprising:

a tank having a bottom and at least one sidewall, said at least one sidewall including sheet piling, said tank including a mid-deck defining an upper chamber and a lower chamber within said tank, said sidewall having an inlet orifice and an outlet orifice within said upper chamber and proximate said mid-deck; and

a diffuser located proximate said inlet orifice, said diffuser providing fluid communication between said upper chamber and said lower chamber through said mid-deck, wherein said mid-deck defines a flow control orifice disposed proximate said outlet orifice, said flow control orifice providing fluid communication between said upper chamber and said lower chamber.

2. The separator system claimed in claim 1 wherein said diffuser includes at least one wall defining a top opening and a bottom opening, said top opening being located proximate said inlet orifice and said bottom opening being in communication with said lower chamber.

3. The separator system claimed in claim 2 wherein said inlet orifice has a flow direction and said diffuser further includes a plurality of spaced apart vanes attached to said at least one wall and disposed parallel to said flow direction for dispersing a fluid flow moving from said top opening to said bottom opening.

4. The separator system claimed in claim 3 wherein said vanes are spaced apart further at said bottom opening than at said top opening.

5. The separator system claimed in claim 1 further including at least one baffle extending upwards from said bottom within said lower chamber between said diffuser and said flow control orifice.

6. The separator system claimed in claim 1, wherein said flow control orifice is defined by an interior diameter of a flow control pipe extending from said mid-deck downwards into said lower chamber.
7. The separator system claimed in claim 6, wherein said flow control pipe includes a collar defining said interior diameter, said collar being removably attached to said flow control pipe.
8. The separator system claimed in claim 1, wherein said at least one sidewall includes four sidewalls in a rectangular formation.
9. The separator system claimed in claim 1, wherein said sheet piling includes steel sheet piling.
10. The separator system claimed in claim 9, wherein said steel sheet piling includes Z-type steel sheet piling.
11. The separator system claimed in claim 1, further including an oil extraction pipe providing fluid communication between said lower chamber and said upper chamber, said oil extraction pipe extending upwards from said mid-deck into said upper chamber.
12. The separator system claimed in claim 1, further including an inlet pipe coupled to said at least one side wall and defining said inlet orifice and an outlet pipe coupled to said at least one side wall and defining said outlet orifice, said inlet pipe and said outlet pipe being adapted for attachment to sewer pipelines.